JUN 0 8 2007

PTO/SB/21 (07-06 Approved for use through 09/30/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE k Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. 10/709,921 Application Number ŔANSMITTAL 06/06/2004 Filing Date **FORM** Yung-Yi LIU First Named Inventor 1745 Art Unit **Examiner Name** ECHELMEYER, ALIX ELIZABETH (to be used for all correspondence after initial filing) Attorney Docket Number NANP0002USA Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC ✓ Drawing(s) Fee Transmittal Form Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer **Extension of Time Request** below): 1. A copy of the Front Page of Patent Request for Refund 2. A copy of Fee Transmittal submitted on **Express Abandonment Request** 04/17/2007 CD, Number of CD(s) 3. Copies of the Notice of Recordation dated Information Disclosure Statement 06/07/2004 4. The Form of PTO/SB/44 Landscape Table on CD Remarks Certified Copy of Priority Document(s) Request for Certificate of Correction of Office Mistake Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT				
Firm Name	North America Intellectual Property Corporation		JUN 1 2 ction	
Signature	Winters Hore	of Courection		
Printed name	Winston Hsu			
Date	JUN 0 7 2007	Reg. No.	41,526	
Date	JUN 0 7 2007	Reg. No.	41,526	

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Scephanid Law

Typed or printed name

Stephanie Lai

JUN 07 Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to This collection of information is required by 37 CPR 1.5. The limit and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

2007

JUN 0 8 2007 Proder the Paperwork Reduction Act of	f 1995 no per	sons are required to re	U.S. Patent a espond to a collection	and Trademar	k Office: IIS Di	PTO/SB/17 (02-07) ph 02/28/2007. OMB 0651-0032 EPARTMENT OF COMMERCE avs a valid OMB control number
Fees purelled to the Consolidated App	2/08/2004				plete if Kno	
Fees pursuable to the Consolidated App	ropriations Act,	2005 (H.R. 4818).	Application Numb	140/	09,921	
FEE TRAN	ISMI	TTAI	Filing Date		06/2004	
For FY		· · · · · · -	First Named Inver		g-Yi LIU	
	2007		Examiner Name	FOURINEVED ALLY ELIZADETLI		
Applicant claims small entity s	tatus. See 3	7 CFR 1.27	Art Unit	174		
TOTAL AMOUNT OF PAYMENT	(\$) 0.00		Attorney Docket N		NP0002US/	4
METHOD OF DAVISENT (short	li all dhad an					
METHOD OF PAYMENT (chec	K all that ap	ipiy)				
Check Credit Card	Money	Order L Non	e Other (ple	ease identify)); <u> </u>	
Deposit Account Deposit A	ccount Number			count Name	lorth America Inte	ellectual Property Corporation
For the above-identified dep				_		
Charge fee(s) indicate						cept for the filing fee
_ * ``		d	. 			cept for the filing fee
Charge any additional under 37 CFR 1.16 a	nd 1.17			any overpay		
WARNING: Information on this form minformation and authorization on PTO	ay become pu	blic. Credit card info	rmation should not b	be included o	on this form. Pro	ovide credit card
FEE CALCULATION						
1. BASIC FILING, SEARCH,	ING FEES	SEAR	CH FEES		TION FEES	
Application Type Fee	<u>Small Er</u> (\$) Fee (\$		Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fees Paid (\$)
Utility 300	150	500	250	200	100	
Design 200	100	100	50	130	65	
Plant 200	100	.300	150	160	80	
Reissue 300	150	500	250	600	300	
Provisional 200	100	0	0	0	0	
2. EXCESS CLAIM FEES Fee Description					Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (includi					50 200	25 100
Each independent claim ove Multiple dependent claims	r 3 (meluan	ng Keissues)			360	180
	<u>Claims</u>	Fee (\$) Fee	Paid (\$)			ependent Claims
20 or HP =	x	=			Fee (\$)	Fee Paid (\$)
HP = highest number of total claims p Indep. Claims Extra - 3 or HP =	paid for, if greate Claims X		Paid (\$)			
HP = highest number of independent claims paid for, if greater than 3. 3. APPLICATION SIZE FEE						

Other (e.g., late filing surcharge):

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Number of each additional 50 or fraction thereof

Fee Paid (\$) (round up to a whole number)

4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount)

Fees Paid (\$)

SUBMITTED BY Registration No. Telephone 3027291562 Wunton Signature Hora 41,526 Date 07 Name (Print/Type) Winston Hsu

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 7,220,507 B2

Issue Date: May 22, 2007

Inventor : Yung-Yi Liu et al.

Docket No.: NANP0002USA

Title: FLAT PANEL DIRECT METHANOL FUEL CELL AND METHOD OF MAKING

THE SAME

To: Commissioner for Patents

P.O. BOX 1450

Alexandria, VA 22313-1450

Subject: Request for Certificate of Correction of Office Mistake

Dear Sir:

The number of the assignee listed on the front page of the above-identified Patent is incorrect (Attachment 1). Documents on record indicate this as an Office mistake of consequence.

The applicant hereby requests that a Certificate of Correction be issued under 37 CFR 1.322 to add Nan Ya Printed Circuit Board Corporation, Taoyuan (TW), as one of the assignees which were correctly listed on the Fee Transmittal submitted on 04/17/2007 (Attachment 2) and the Notice of Recordation dated 06/07/2004 (Attachment 3).

Respectfully submitted,

Wentonton	Date:	JUN 07	2007

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562 Facsimile: 806-498-6673

e-mail: winstonhsu@naipo.com

(Note: Please leave a message in my voice mail if you need to talk to me. The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan).

Please add " Nan Ya Printed Circuit Board Corporation, Taoyuan(TW)" to be one of the assignees

Attachment 1



(12) United States Patent Liu et al.

US 7,220,507 B2 (10) Patent No.: (45) Date of Patent: May 22, 2007

(54)	FLAT PANEL DIRECT METHANOL FUEL
	CELL AND METHOD OF MAKING THE
	SAME

(52)	U.S. Cl 429/32	!; 429/36
(58)	Field of Classification Search	429/32
	See application file for complete search hist	orv.

U.S. PATENT DOCUMENTS

(75) Inventors: Yung-Yi Liu, Taipei Hsien (TW);

(56)References Cited

Shi-Shyan James Shang, Taoyuan
(TW); Hsi-Ming Shu, Taipei Hsien
(TW); Tsang-Ming Chang, Taipei
(TW); Feng-Yi Deng, Taipei (TW)

6,127,058	A *	10/2000	Pratt et al	. 429/30
6,451,624	B1 *	9/2002	Farnworth et al	438/106
6,706,564	B2 *	3/2004	Kim et al	438/125
2002/0043402	A1*	4/2002	Juskey et al	174/260
2002/0001878	A 1 *		Posanfald at al	

7/2005 Shu et al. 429/34

Assignee: Antig Technology Co., Ltd., Taipei (TW)

> 2005/0158608 A1* * cited by examiner

Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

> Primary Examiner—Susy Tsang-Foster Assistant Examiner-Alix Echelmeyer (74) Attorney, Agent, or Firm-Winston Hsu

U.S.C. 154(b) by 262 days. Appl. No.: 10/709,921 (21)

Jun. 6, 2004

ABSTRACT

Filed: (22)

(65)

Sep. 29, 2005

US 2005/0214621 A1 (30)Foreign Application Priority Data

A flat panel DMFC (direct methanol fuel cell) includes an integrated cathode electrode sheet; a membrane electrode assembly (MBA) unit; an intermediate bonding layer; an integrated anode electrode sheet; and a fuel container. The integrated cathode/anode electrode sheets are manufactured

(51) Int. Cl. H01M 8/02

H01M 8/10

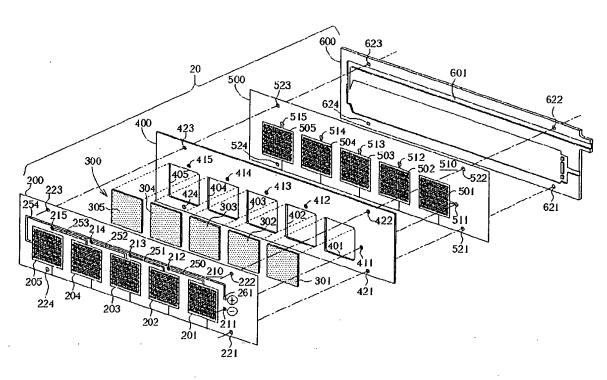
(2006.01)(2006.01)

Mar. 26, 2004 (TW) 93108441 A

Prior Publication Data

13 Claims, 12 Drawing Sheets

by using printed circuit board (PCB) compatible processes.



Attachment 2

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

appropriate. All further ec indicated unless corrected maintenance fee notification						
CURRENT CORRESPONDEN	NCE ADDRESS (Note: Use Bloc	k i for any change of eddress)	Fco(s paper have	i) Transmittal. This one. Each additional pitts own certificate of	aper, such as an assignment finalling or transmission.	nt or formal drawing, must
CORPORATION	7590 03/05/200					st class mail in an envelope above, or being facsimile ate indicated below.
P.O.BOX 506 MERRIFIELD, VA 22	116			phanie Lai		(Dabontors times)
				Szephami	e fait	(2)Summa)
			04/	17/2007		(Date)
	FILING DATE		TRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO			Yung-Yi LIU		NANPO002USA	3920
10/709,921 Tille of Invention	06/06/2004 FLAT PANEL DIRE	CT METHANOL FUEL	CELL AND METHOD	OF MAKING THE	SAME	·
		ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	YEE TOTAL FEE(S) DU	
APPLN TYPE	SMALL ENTITY	\$1400	\$300	\$0	\$1700	06/05/2007
nonprovisional	NO NO	ART UNIT	CLASS-SUBCLASS]		
	MINER CARETH	1745	429-032000			
ECHELMEYER,	ALIX ELIZABETH dence address or indication	on of "Fee Address" (37	2. For printing on the	patent front page, lis	t attorneys 1 Wi	inston Hsu
Change of corres Address form PTO/S "Fee Address" in PTO/SB/47; Rev 03	pondence address (or Ch SB/122) attached. dication (or "Fee Addres -02 or more recent) attac	ange of Correspondence s" Indication form thed. Use of a Customer	(2) the name of a sin registered attorney or 2 registered attorney or 2 registered patent at issted, no name will be the patent of the patent	gle firm (having as a r agent) and the nam torneys or agents. If he printed.	no name is 3	e document has been filed for
PLEASE NOTE: U recordation as set for (A) NAME OF ASS	Inless an assignee is identified in 37 CFR 3.11. Considered	npletion of this form is N	(B) RESIDENCE: (CI 338, Sec. 1, Nan	TY and STATE OR kan Road, Luchu,		
ANTIC TECHN	OLOGY CO., LTD.		/F-1 NO 342 (u	Individual V	Corporation or other private	group entity U Government
Please check the appro	priate assignee category	or categories (will not be	printed on the patenty.	S. A. Sanaki	any previously paid issue	e group entity Government Gee shown above)
4a. The following feet			4b. Payment of Pools to	d		
ΓΛ · · · · · · · · · · · · · · · · · · ·			Payment by credit	card. Form PTO-20	38 is attached.	v deficiency, or credit any
Publication Fee	(No small entity discount for Copies	nt permittee)	The Director is her overpayment, to D	reby authorized to cr reposit Account Num	ber 50-3105 (enclo	y deficiency, or credit any ose an extra copy of this form).
		1.1	☐ b. Applicant is no	longer claiming SM	ALL ENTITY status, Sec	37 CFR 1.27(g)(2). or the assignee or other party in
a. Applicant cli	aims SMALL ENTITE	tatas: acc	and Grom among other th	an the applicant; a re	egistered attorney or agoni	or the assignee or other party in
NOTE: The Issue Fee interest as shown by t	the records of the United	required) will not be accessates Patent and Tradem	ark Onto.	Date	04/17/2007	
Authorized Signal		inton be us			n No. 41,526	
Typed or printed	name Winst	on Hsu	i i	or retain a benefit	by the public which is to file	le (and by the USPTO to process cluding gathering, preparing, an
This collection of ind an application. Conf submitting the comp this form and/or sug Box 1450, Alexandr Alexandria. Virginia	formation is required by identiality is governed by letted application form it gestions for roducing thing, yinginia 22313-1450.	37 CFR 1.311. The inform y 35 U.S.C. 122 and 37 Co the USPTO. Time will be burden, should be sent to DO NOT SEND FEES	respond to a collection or COMPLETED FORM to respond to a collection	is estimated to take individual case. Any officer, U.S. Patent a AS TO IHIS ADDR of information unles	12 minutes to complete, comments on the amount ind Trademark Office, U.S. ESS. SEND TO: Commiss it displays a valid OMB o	le (and by the USPTO to process cluding gathering, preparing, and of time you require to complet. Department of Commerce, P.C. ioner for Patents, P.O. Box 1450 control number.
Under the Paperwor	k Reduction Act of 1995	, no persons are required to				

PTOL-85 (Rev. 07/06) Approved for use through 04/30/2007.

OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE





948878

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

JUNE 07, 2004

PTAS

800012245A

NAIPO (NORTH AMERICA INTERNATIONAL PATEN P.O. BOX 506

MERRIFIELD, VA 22116

Zoe

Tsong

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/06/2004

REEL/FRAME: 014696/0319

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: NANPOOO2USA

ASSIGNOR:

LIU, YUNG-YI

DOC DATE: 05/28/2004

ASSIGNOR:

SHANG, SHI-SHYAN JAMES

DOC DATE: 05/28/2004

ASSIGNOR:

SHU, HSI-MING

DOC DATE: 05/28/2004

ASSIGNOR:

CHANG, TSANG-MING

DOC DATE: 05/28/2004

ASSIGNOR:

DENG, FENG-YI

DOC DATE: 05/28/2004

· 014696/0319 PAGE 2

ASSIGNEE:

NAN YA PRINTED CIRCUIT BOARD CORPORATION

338, SEC. 1, NANKAN ROAD, LUCHU TAOYUAN, TAIWAN

ASSIGNEE:

ANTIG TECHNOLOGY CO., LTD.
7F-1 NO 342 FU-HSIN NORTH ROAD
TAIPEI, TAIWAN

SERIAL NUMBER: 10709921

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: FLAT PANEL DIRECT METHANOL FUEL CELL AND METHOD OF MAKING THE SAME

LAZENA MARTIN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

PATENT ASSIGNMENT

Electronic Version v07 Stylesheet Version v02

06/06/2004 800012245

SUBMISSION TYPE:

NEW ASSIGNMENT

APPLICATION NUMBER
10/709921

NATURE OF CONVEYANCE: ASSIGNMENT OF ASSIGNOR'S INTEREST

CONVEYING PARTY DATA

Name	Execution Date
Yung-Yi LIU	2004-05-28
Shi-Shyan James SHANG	2004-05-28
Hsi-Ming SHU	2004-05-28
Tsang-Ming CHANG	2004-05-28
Feng-Yi DENG	2004-05-28

RECEIVING PARTY DATA

Name	Street Address	Internal Address	City	State/Country	Postal Code
Nan Ya Printed Circuit Board Corporation	338, Sec. 1, Nankan Road, Luchu		Taoyuan	TAIWAN	
ANTIG TECHNOLOGY CO., LTD.	7F-1 No 342 Fu-Hsin North Road		Taipei	TAIWAN	

CORRESPONDENCE DATA

FAX NUMBER: 886229295950

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.

CUSTOMER NUMBER: 027765

NAME OF PERSON SIGNING:	WINSTON HSU
DATE SIGNED:	2004-06-05

Total Attachments: 2

source=NANP0002ASS1.tif source=NANP0002ASS2.tif

JUN 1 2 2007

PTO/SB/44 (04-05)
Approved for use through 04/30/2007. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

CERTIFICATE OF CORRECTION
Page <u>1</u> of <u>1</u>
PATENT NO. : 7,220,507 B2
APPLICATION NO.: 10/709,921
ISSUE DATE : May 22, 2007
INVENTOR(S) : Yung-Yi Liu et al.
It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:
Title page, Item [73], add "Nan Ya Printed Circuit Board Corporation, Taoyuan (TW)" to be one of the assignees.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.